

## Special Issue

# Local Structure Characterization for Complex Functional Materials

### Message from the Guest Editor

This Special Issue aims to provide a platform for community discussion about the recent progress and futuristic perspective of local structure characterization in complex functional materials. The local perspective of the microscopic structure plays a critical role in determining the properties of a wide range of functional materials, e.g., the polarization behavior in ferroelectric materials, ion transportation behavior in energy storage materials, coordination chemistry in catalysis materials, and magnetic anisotropy in low-dimensional magnetic systems, among others. Characterization of the local structure of functional materials thus becomes an imperative task in pursuit of better understanding the structure–property link, aiming to provide reliable guidance principles for designing better-performing functional materials. As the exploration space further extends to complex function materials, there emerges an increasing demand for comprehensive characterization of the local structure.

### Guest Editor

Dr. Yuanpeng Zhang

Neutron Science Division, Oak Ridge National Laboratory, 1 Bethel Valley Road, Oak Ridge, TN 37830

### Deadline for manuscript submissions

closed (20 May 2025)



## Materials

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*Materials*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[materials@mdpi.com](mailto:materials@mdpi.com)

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### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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### Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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